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An Analysis of the South Carolina Peanut Industry

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Introduction

2002: A significant change in Federal programs affecting U.S. peanut industry Prior to 2002: Federal programs directly affected peanut supply and price Peanut production quotas and price supports 2002: Industry deregulation

Peanut quota buyout program

Peanut growers became eligible for a number of farm support programs Crop years 2014-2018 programs include

- Marketing Assistance Loan
- Price Loss Coverage
- Agriculture Risk Coverage

Objectives

• To evaluate the performance of peanut industry in South Carolina in the period following the industry deregulation

• To focus on changes in the level and volatility of key economic variables

• To provide preliminary estimates of peanut price flexibility

Data

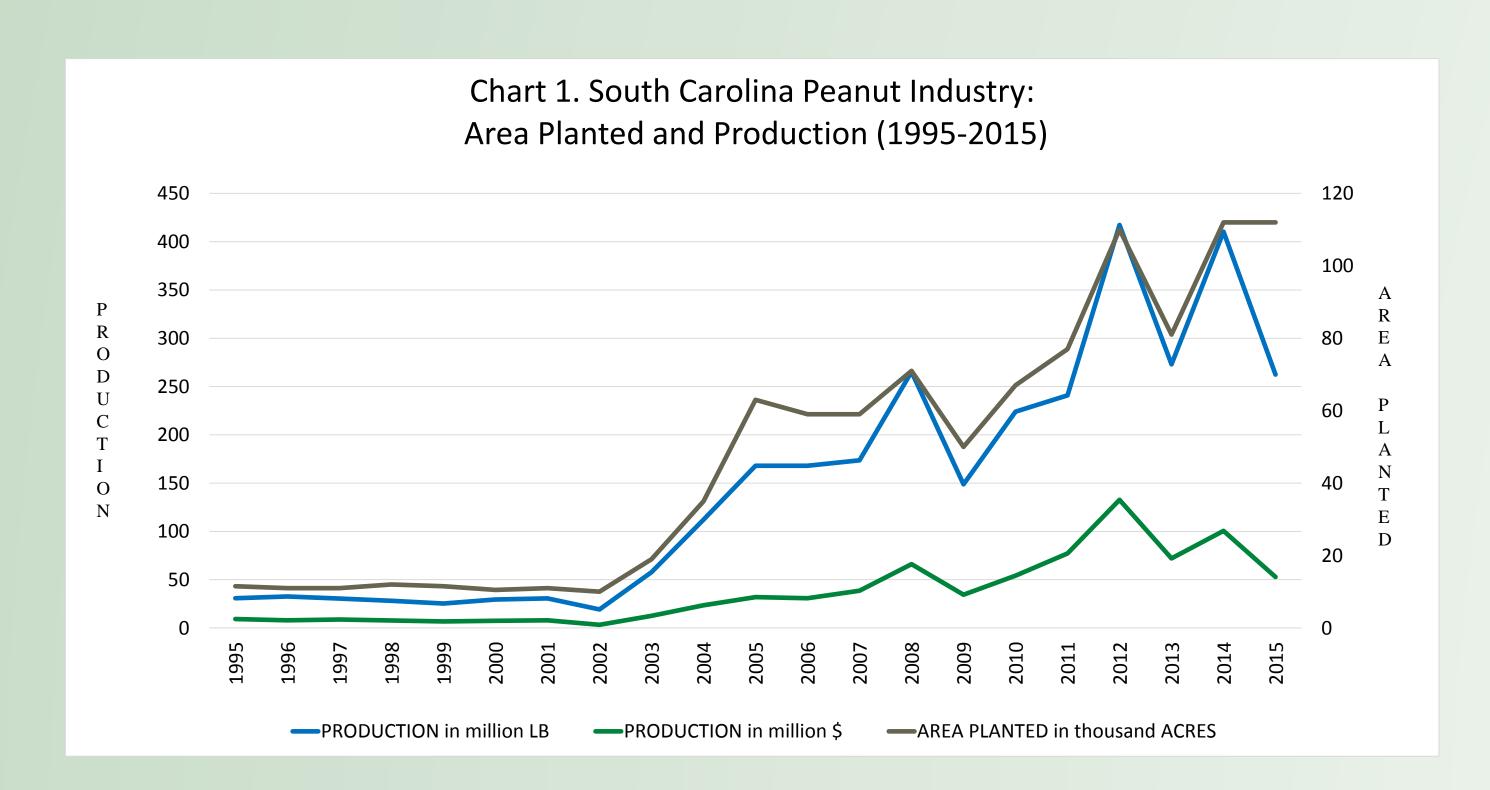
USDA National Agricultural Statistics Service • Area planted, production, yield, production value, price received by growers USDA Economic Research Service Peanut production costs All variables used in the analysis are on a yearly basis

Methodology

• Averages and coefficients of variation (CV) are calculated for key economic variables

Two periods are used in the analysis

- 1995-2001: a period prior to the industry deregulation
- 2002-2015: a period following the industry deregulation



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Table 1. South Carolina Peanut Industry: Peanut Production and Price (1995-2002).

		1995-2001		2002-2015	
		Average	CV	Average	CV
Area planted	acres	11,214	0.04	66,071	0.48
Production	pounds	29,625,000	0.08	210,052,857	0.55
Yield	pounds/acre	2,786	0.11	3,293	0.14
Production value	\$	7,977,286	0.10	52,166,071	0.68
Price received	\$/pound	0.27	0.07	0.23	0.20

Changes in the Industry Performance Following the Deregulation (2002-2015)

- The average area planted increased almost 6 times The area volatility increased 12 times
- The average production measured in pounds increased 7 times The production volatility increased almost 7 times
- The average *yield* measured in pounds per acre increased by 18%
- The average *production value* measured in \$ increased 6.5 times The production value volatility increased almost 7 times
- The average *price* received by growers decreased by 14% • The price volatility increased almost 3 times

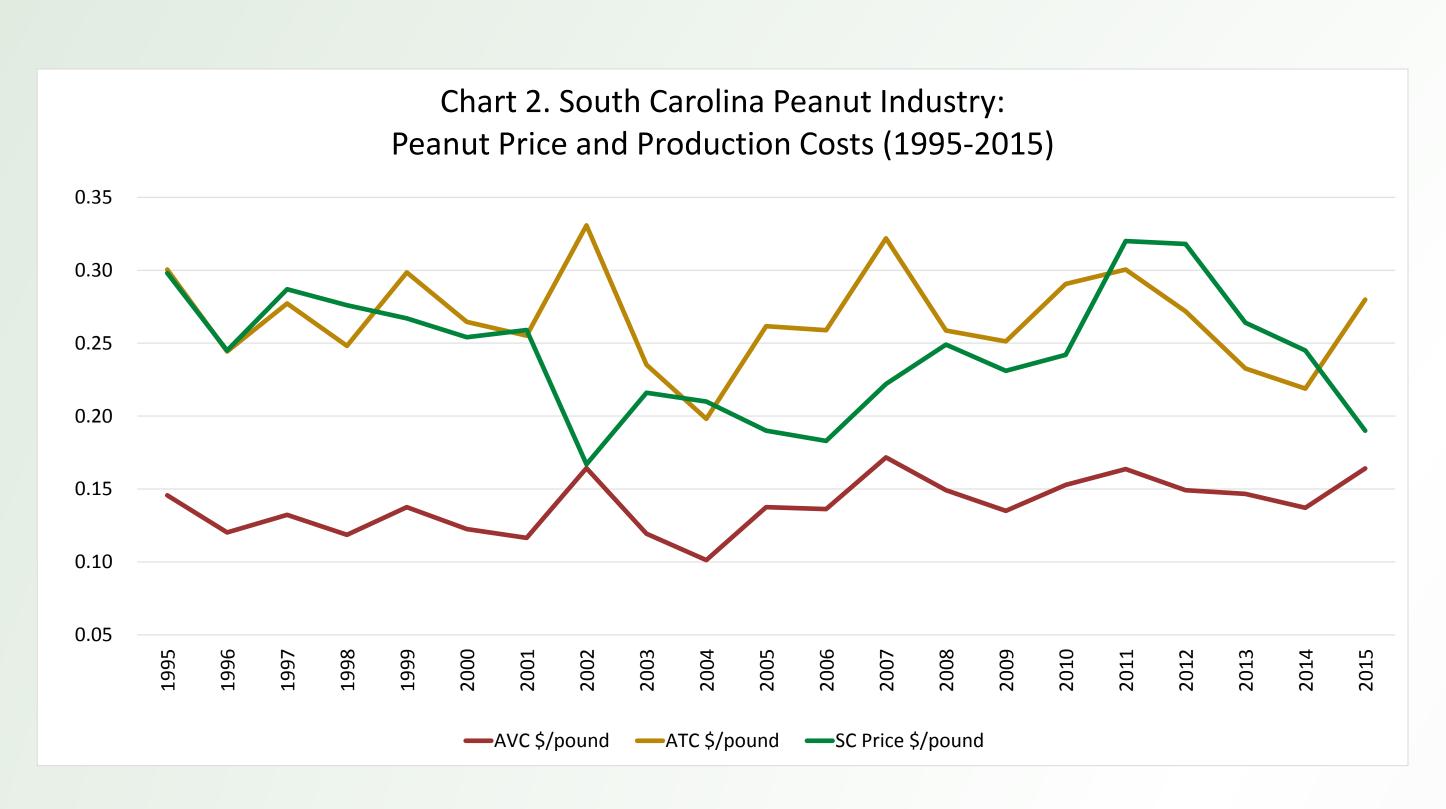


Table 2. South Carolina Peanut Industry:

Peanut Price and Production Costs (1995-2002). 1995-2001 Average Average Variable Costs 0.128 \$/pound Average Total Costs 0.270 \$/pound Price received 0.269 \$/pound PCM (based on AVC) \$/pound 0.142 PCM (based on AVC) % of price 52.62

\$/pound

% of price

0.00

-0.21

PCM (based on ATC)

PCM (based on ATC)

1	2002-2015		
CV	Average	CV	
0.09	0.145	0.13	
0.09	0.265	0.14	
0.07	0.232	0.20	
0.09	0.087	0.54	
0.05	35.47	0.43	
56.03	-0.03	-1.83	
31.74	-18.73	-1.70	

Changes in the Industry Performance Following the Deregulation (2002-2015)

- The average price received by growers decreased by 14%
- The average *variable costs* increased by almost 13% than 30%

Table 3. Peanut Price Flexibility

	2004 2005	2012 2014	
	2004-2005	2013-2014	
Q, million pounds	112.2; 168.0	273.0; 410.4	
P, \$ per pound	0.21; 0.19	0.26; 0.25	
% change in Q	50	50	
% change in P	-10	-7	
Price Flexibility	-0.20	-0.14	

Based on 2013-2014 production (pounds) and price (\$ per pound) data Peanut price flexibility is -0.14 • An increase in peanut production by 1% results in a decrease in peanut price by 0.14%

• A decrease in peanut production by 1% results in an increase in peanut price by 0.14%

- A high level of supply volatility

Conclusions

Changes in the South Carolina peanut industry performance Increase in peanut production and increase in production volatility • Decrease in peanut price received by growers and increase in price volatility Price-cost margins exhibit a decreasing trend over time Increasing volatility of peanut production costs

Market environment after the industry deregulation

- of peanut growers
- The use of marketing contracts increases

References

Dohlman, E., and J. Livezey. 2005. Peanut Backgrounder. USDA Economic Research Service, Electronic Outlook Report OCS-05i-01.

Dohlman, E., L. Foreman, and M. Da Pra. 2009. The Post-Buyout Experience: Peanut and Tobacco Sectors Adapt to Policy Reform. USDA Economic Research Service, Economic Information Bulletin Number 60.

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• The average *price-cost margin* (calculated using AVC) decreased by more

• The average total production costs remained at approximately the same level • The average *price-cost margin* (calculated using ATC) became negative

Should be used with caution in the decision-making process

• A greater exposure of peanut growers to production, marketing and price risks • Current farm support programs influence production and marketing decisions

 Contract pricing structures are tied to marketing loan rates • Price discovery issue: peanut industry has "thin" market characteristics